

**Meyers, Charles**

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**From:** Oliver, Stan  
**Sent:** Wednesday, August 07, 2002 9:26 AM  
**To:** Wilson, Renee  
**Cc:** Meyers, Charles; Swanson, Greg  
**Subject:** RE: Weekly Notes

**SRB (Solid Rocket Booster) APU (Auxiliary Power Unit) Fuel Pump Inlet Port Crack**

An SRB APU pump housing experienced a detrimental crack while a rosan fitting was installed during a routine overall. The housing was sectioned for metalographic inspection and a portion of the crack was corroded indicating that part of the crack was exposed to salt water emersion. ED22 continues to support the investigation with USA into the cause as well as support the testing and analysis associated with a flight rational. Finite element models are used to predict the assembly and operational stresses, and a test was performed at MSFC to determine the hoop strains that develop in the inlet boss on the housing when the rosan fitting is installed. The test and FEM data are used in the fracture analysis to support the belief that a thru-crack will not develop during flight.

-----Original Message-----

**From:** Wilson, Renee  
**Sent:** Tuesday, August 06, 2002 2:18 PM  
**To:** Aggarwal, Pravin; Androlake, Steve; Chamlee, Joe; Craig, Larry; Davis, Mark; Finnegan, Charles; Fox, Doug; Gregg, Wayne; Hawkins, Jim; Lanter, Gayle; Meyers, Charles; Oliver, Stan; Ortega, Rene; Poole, Eric; Rayburn, Jeff; Richard, Vic; Rogers, Patrick; Roth, Lisa; Steeve, Brian; Swanson, Greg; Vital, John; Wilson, Renee; Wingate, Rob  
**Subject:** Weekly Notes

Does anyone have any weekly notes to turn in?

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